Calendar: Fall Semester 2000

1-3 Aug 00	Registration. Bldg. 3072, 9:00 a.m. to 5:00 p.m.
8-10 Aug 00	Registration. Bldg. 3072, 9:00 a.m. to 5:00 p.m.
21 Aug 00	Semester begins for Mississippi State.
21 Aug 00	Semester begins for Louisiana State.
28 Aug 00	Semester begins for Texas A&M.
28 Aug 00	Last day to drop a class from Louisiana State without a grade.
01 Sep 00	Last day to drop a class from Mississippi State without a grade.
03 Nov 00	Last day to drop a class from TAMU with no penalty.
03 Nov 00	Last day to withdraw from Texas A&M and Louisiana State.
21 Nov 00	Last day to withdraw from Mississippi State
09 Dec 00	Semester ends for Louisiana State.
13 Dec 00	Semester ends for Texas A&M.
14 Dec 00	Semester ends for Mississippi State.

Tuition

Louisiana State	Mississippi State	Texas A&M
$575/3 SCH	$393.00/3 SCH	$1,275/3 SCH (Subject to change)

NOTE: New students enrolling in courses offered by Louisiana State and Texas A&M will have to pay an application fee of $25.00 and $35.00, respectively. Students enrolling at Texas A&M will also be required to pay a one-time fee of $10.00 which is refundable from the university upon request. Tuition and fees are payable at registration by check, money order, or a copy of an approved purchase request (DD Form 1556 for Corps employees).

Withdrawals and Refunds

Requests to withdraw from a course must be submitted in writing to the Director, Graduate Institute. Refunds, if applicable, will be by the university according to their policy.

Textbooks

Textbooks will be available for purchase at the first class meeting.

Courses: Fall Semester 2000

Mississippi State University

Civil Engineering

CE 8803. *Unit Processes and Operations in Environmental Engineering*. (3). Instr. Dr. C. Ruiz, ERDC.
Theory and application of physical and chemical unit processes and operations available for the treatment of water and wastewater.
Tu, 3:30-6:30 p.m., Classroom No. 1, Bldg. 3072.

CE 8993. *Blast Resistant Structures*. (3). Instr. Dr. S. Woodson, ERDC.
Concepts and techniques for the design and analysis of structural elements and buildings subjected to blast effects. Consideration given to both hardened structures and public building. (Prereq.: Consent of instructor.)
Th, 3:30-6:30 p.m., Classroom No. 1, Bldg. 3072.

CE 6103. *Pavement Design*. (3). Instr. Dr. R. Rollings, ERDC .
Analysis and design of both flexible and rigid pavement structures. (Prereq: CE 3413).
M, 3:30-6:30 p.m., Classroom No. 1, Bldg. 3072.

Industrial Engineering

IE 6773. *Systems Simulation I.* (3). Instr. TBA, MSU. (V).
Introduction to mathematical techniques of queuing and the principles of stochastic simulation. The statistics of simulation. Use of C programming and special-purpose simulation languages.
M, 3:30-6:30 p.m., Classroom No. 11, Bldg. 3072.

IE 6393. *Concurrent Engineering*. (3). Instr. Dr. John Usher, MSU. (V).
An introduction to the implementation, application, and management of concurrent engineering, as well as, the tools and techniques that support new product development.
Tu, 3:30-6:30 p.m., Classroom No. 11, Bldg. 3072.

Electrical Engineering

EE 6773. *Digital Signal Processing*. (3). Instr. Dr. C. Cox, ERDC.
Discrete time signals, Z-Transform, Discrete Fourier Transform, digital filter design including IIR, FIR and FFT synthesis.
Tu, 3:30-6:30 p.m., Classroom No. 2, Bldg. 3072.

Engineering Mechanics

EM 8993. *Theory of Elasticity*. (3). Instr. Dr. J. Peters, ERDC.
Fundamentals of continuum mechanics needed to formulate and interpret numerical solutions to problems in linear elasticity will be presented. Linear theories of beams and plates are derived from the general three dimensional theory. Energy principles and their relationship to the weighted residual method and finite element approximation are covered in detail. The concepts of stability, bifurcation, limit points, and imperfection sensitivity are introduced.
Tu, 3:30-6:30 p.m., Classroom No. 3, Bldg. 3072.

Mechanical Engineering

ME 6333. *Energy Systems Design*. (3). Instr. Dr. B. Hodge , MSU. (V).
Comprehensive design problems requiring engineering decisions, data acquisition, codes/standards compliance. Emphasis upon energy systems components: heat exchangers, piping networks, pumps, Fluid transients, system modeling. (Prereq.: ME 3313 and ME 3113.)
W, 3:30-6:30 p.m., Classroom No. 11, Bldg. 3072.

ME 8313. *Conductive Heat Transfer*. (3). Instr. TBA, MSU. (V).

Closed form analytical and approximate numerical solutions to one-, two- and three-dimensional steady-state and transient problems in conductive heat transfer.
Th, 3:30-6:30 p.m., Classroom No. 11, Bldg. 3072.

Chemical Engineering

CHE 6323. *High-Polymer Theory and Practice.* (3). Instr. Dr. N. Losure , MSU. (V).
A study of high polymers, covering structure with its relation to physical and chemical properties; polymerization, compounding, processing and testing final products.
F, 3:30-6:30 p.m., Classroom No. 11, Bldg. 3072.

Computer Science

CS 6503. *Database Management Systems*. (3). Instr. Dr. M. Wright, ERDC.
Logical and physical data and file organization; hierarchical, networks and relational data models; data normalization,; query facilities; current literature in the database area. .
M, 3:30-6:30 p.m., Classroom No. 2, Bldg. 3072.

Mathematics

MA 8203. *Foundations of Applied Mathematics I.* (3). Instr. Dr. M. Razzaghi, MSU.
Principles of applied mathematics including topics from partial differential equations and calculus of variations. Emphasis of applications from engineering problems. (Prereq.: Consent of instructor.)
W, 3:30-6:30 p.m.,Classroom No. 1, Bldg. 3072.

Business

MKT 8112, Section 02. *Marketing Management*. (2). Instr. Dr. B. Engelland, MSU (VTC).
A graduate servey of marketing focused on the strategic analysis and planning necessary to effectively match marketing strategies with changing macro, micro, and organizational environments.
Tu, 6:00 - 10:00 p.m., 22 August - 12 October, Classroom No. 3, Bldg. 3072.

BQA 8112, Section 03. *Business Case Analysis Using Statistics*. (2). Instr. Dr. H. Bazyari, MSU (VTC).
Descriptive statistics, data collection techniques estimation, hypothesis testing, analysis of variance, regression, time series, index number, forecasting statistical process control applied to business case data.
Tu, 6:00 - 10:00 p.m., 16 October - 9 December, Classroom No. 3, Bldg. 3072.

Louisiana State University

Geography

GEOG 4082. *Biogeography*. (3). Instr. Dr. R. Hamilton, ERDC.

Distribution and patterns of life in the biosphere are examined. Methods of dispersal, colonization, and extinction along with basic ecological and geographical principles are covered. The major biomes and island biogeography are studied.
W, 3:30-6:30 p.m., Classroom No. 2, Bldg. 3072.

Environmental Studies

ENVS 7995. *Environmental Seminar*. (1). Instr. Dr. W. Keithly, LSU (VTC).
M, 5:30-6:30 p.m., Classroom No. 4, Bldg. 3072.

ENVS 7041. *Environmental Policy Analysis*. (3). Instr. Drs. M. Reams and M.. Walsh, LSU.
Management-oriented approach to major phases of environmental policy; formulation, implementation, evaluation; theoretical bases and analytical techniques.
W, 4:30-7:30 p.m., Classroom No. 4, Bldg. 3072.

Experimental Statistics

EXST 7015. *Statistical Techniques II.* (3). Instr. Dr. J. Geaghan, LSU (VTC).
Multiple classification analyses of variance and covariance, sampling designs, parameter estimation, multiple regression and correlation, tests of specific hypothesis, and factorial experiments; emphasis on field-oriented life sciences research problems. (Prereq.: EXST 7005 or equivalent.)
Tu & Th, 1:30-3:00 p.m., Classroom No. 4, Bldg. 3072.

Texas A&M University

Ocean Engineering

OCEN 685. *Problems*. (1-6). Research for thesis or dissertation.

OCEN 691. *Research*. (1-6). Research for thesis or dissertation.